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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/678,189	10/678,189 10/06/2003		Hiroshi Tsunehara	NS-US035105	2342		
22919	7590	04/29/2004		EXAM	EXAMINER		
		L IP COUNSELOR NW, SUITE 700	PEZZLO, BI	PEZZLO, BENJAMIN A			
		20036-2680	ART UNIT	PAPER NUMBER			
	·			3683	-		

DATE MAILED: 04/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/678,189	TSUNEHARA, HIRO	TSUNEHARA, HIROSHI				
	Office Action Summary	Examiner	Art Unit					
		Benjamin A Pezzlo	3683					
Period fo	The MAILING DATE of this communi	cation appears on the cover she t	with the correspond nce add	ress				
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIO nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- e period for reply specified above is less than thirty (30 D period for reply is specified above, the maximum stature to reply within the set or extended period for reply verily received by the Office later than three months af- ed patent term adjustment. See 37 CFR 1.704(b).	CATION.  of 37 CFR 1.136(a). In no event, however, may unication.  of days, a reply within the statutory minimum of to tutory period will apply and will expire SIX (6) Mixill, by statute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this com ABANDONED (35 U.S.C. § 133).	nmunication.				
Status								
1) 又	Responsive to communication(s) filed	d on 07 April 2004.						
·		b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠	Claim(s) 1-28 is/are pending in the ap 4a) Of the above claim(s) 13-18 and 2 Claim(s) is/are allowed.  Claim(s) 1-8, 19, and 20 is/are rejected to.  Claim(s) 9-12 is/are objected to.  Claim(s) are subject to restrict	21-28 is/are withdrawn from consi	deration.					
Applicat	ion Papers							
9)□	The specification is objected to by the	Examiner.	•					
•	The drawing(s) filed on is/are:		o by the Examiner.					
,—	Applicant may not request that any objec							
	Replacement drawing sheet(s) including	the correction is required if the drawir	ng(s) is objected to. See 37 CFF	₹ 1.121(d).				
11)	The oath or declaration is objected to	by the Examiner. Note the attach	ed Office Action or form PTC	)-152.				
Priority (	ınder 35 U.S.C. § 119							
а)	· · · · · ·	locuments have been received. locuments have been received in f the priority documents have bee al Bureau (PCT Rule 17.2(a)).	Application No en received in this National S	tage				
Attachmen								
	e of References Cited (PTO-892) on of Draftsperson's Patent Drawing Review (PT		v Summary (PTO-413) o(s)/Mail Date					
3) 🛛 Infor	e of Drattsperson's Patent Drawing Review (P1 mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date <u>7 A<i>pril</i> 2004</u> .		f Informal Patent Application (PTO-1	152)				

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## **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election with traverse of Species I is acknowledged. The traversal is on the ground(s) that the identified species are only "aspects" or "modes" of the same invention. This is not found persuasive because the identified species are executed independently of each other and are patentably distinct. Indeed, at page 16 of the response Applicant points out that the braking mode selecting section is configured to selectively set *one* of an electric power maintenance priority mode and a braking response priority mode as the selected braking mode. The requirement is still deemed proper and is therefore made FINAL.

## Claim Objections

2. Claim 2 is objected to because of the following informalities:

line 4, "the" should appear between "of" and "braking".

Appropriate correction is required.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 and 19-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Kidston et al. (US 5615933).

Kidston et al. disclose a vehicle braking control system comprising: a braking mode selecting section configured to set one of a plurality of braking modes as a selected braking mode (see col. 8 lines 5-10), with each of the braking modes having a different braking control priority for setting a target regenerative braking force, a target hydraulic braking force and a target electric braking force (see col. 6 lines 46-51); a required braking force determining section (see col. 6 line 29) configured to determine a required braking force for an entire vehicle, and a target braking force setting section configured to set the target regenerative braking force (col. 6 lines 15-20), the target hydraulic braking force, and the target electric braking force based on the braking control priority of the selected braking mode to produce the required braking force for the entire vehicle.

Re claim 2, see col. 8 lines 5-10, note that if a high mu surface is detected then the priority mode is electric power maintenance, i.e. max regenerative braking.

Re claims 3 and 4, see col. 6 lines 15-30 and lines 45-51.

Re claim 5, see col. 6 line 48-51, note that the target hydraulic versus electric braking force is apportioned to maintain "vehicle stability".

Re claim 6, see col. 6 lines 15-30 and lines 45-51.

Re claim 7, see Fig. 9.

Re claim 8, see col. 6 lines 48-51, note that electric brakes are the last to be added to total braking, thus maintaining electric braking power to a limited range.

Re claims 19 and 20, see above rejection re claim 1.

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## Allowable Subject Matter

4. Claims 9-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kade et al., Joyce, Ito et al., Manabe, Kuno et al., Ohtsu et al., Koga et al., Schneider, Isella, Bodie et al., Aoki et al., and Knechtges disclose related devices.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin A Pezzlo whose telephone number is (703) 306-4617. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on (703) 308-3421. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Denjamin Ati335

BAP
April 22, 2004

Benjamin A Pezzlo Examiner Art Unit 3683